

THE COMMISSIONER OF PATENTS AND TRADEMARKS
 WASHINGTON, D.C. 20231

Sir:

Transmitted herewith for filing is the Utility patent application of:

INVENTOR:	HISASHI NAGANO, IZUMI WAKI AND YASUAKI TAKADA
FOR:	APPARATUS FOR DETECTING CHEMICAL SUBSTANCES AND METHOD THEREFOR

Enclosed are:

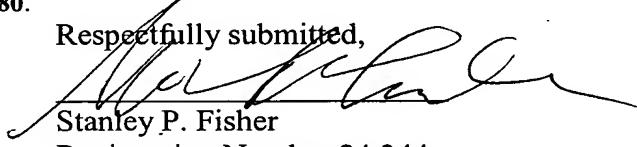
- 12 sheets of formal informal drawings.
- Transmittal of Japanese Patent Application No. 2003-329294 to claim priority date of September 22, 2003
- An assignment of the invention to Hitachi., Ltd.
- An Executed Declaration
- An Information Disclosure Statement
- The filing fee is calculated as shown below:

FOR	NUMBER FILED		NUMBER EXTRA	RATE	CALCULATIONS		
TOTAL CLAIMS	12		0	x\$18 =	0.00		
INDEPENDENT CLAIMS	6		3	x\$86 =	258.00		
MULTIPLE DEPENDENT CLAIM(S) (if applicable)				+\$290 =			
				BASIC FEE	\$770.00		
				TOTAL OF ABOVE	\$1,028.00		
REDUCTION BY <input type="checkbox"/> FOR FILING BY SMALL ENTITY (note 37 C.F.R. § 1.9, 1.27, 1.28).							
IF APPLICABLE, VERIFIED STATEMENT MUST BE ATTACHED							
				TOTAL	\$1,028.00		

- A check in the amount of \$1,068.00 to cover the filing and assignment fees is enclosed.

- The Commissioner is hereby authorized to charge any additional fees associated with this communication, including patent application filing fees and processing fees under 37 C.F.R. § 1.16 and 1.17, or credit any overpayment to Deposit Account Number 08-1480.

Respectfully submitted,


 Stanley P. Fisher
 Registration Number 24,344

Juan Carlos A. Marquez
 Registration Number 34,072

REED SMITH LLP
 3110 Fairview Park Drive
 Suite 1400
 Falls Church, Virginia 22042
 (703) 641-4200
 February 19, 2004

16834 U.S.PTO
 10/780880

021904